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PTO/SB/08a (07-06) (modified)
Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	10	Attorney Docket Number	MP1705-US4
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2,482,316	09-20-1949	Bocking	
		US-3,221,145	11-30-1965	Hager, Jr.	
		US-3,351,882	11-07-1967	Kohler et al.	
		US-3,435,399	03-25-1969	Gielisse et al.	
		US-3,497,859	02-24-1970	Bang	
		US-3,648,364	03-14-1972	Endo	
		US-3,775,725	11-27-1973	Endo	
		US-3,835,434	09-10-1974	Kahn	
		US-4,088,828	05-09-1978	Yamamoto et al.	
		US-4,200,970	05-06-1980	Schonberger	
		US-4,237,441	12-02-1980	van Konynenburg et al	
		US-4,238,812	12-09-1980	Middleman et al	
		US-4,255,698	03-10-1981	Simon	
		US-4,272,471	06-09-1981	Walker	
		US-4,304,987	12-08-1981	van Konynenburg	
		US-4,315,237	02-09-1982	Middleman et al	
		US-4,317,027	02-23-1982	Middleman et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		DE-2816593-A1	10-18-1979	Siemens AG (Grube et al.)		<input type="checkbox"/> Abstract
		DE-3122612-A1	12-23-1982	Draloric Electronic GmbH (Schurmann)		<input type="checkbox"/> Abstract
		DE-3839868-A1	06-08-1989	Murata Mfg. Co., Ltd. (Uchida; US 4,924,204)		<input type="checkbox"/> counterpart
		DE-3910861-A1	11-02-1989	Murata Mfg. Co., Ltd. (Uchida; US 4,997,309)		<input type="checkbox"/> counterpart

Examiner Signature	<i>D. D.</i>	Date Considered	<i>9/15/07</i>
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 2 of 10

Complete if Known

Substitute for form 1449 REMADE OF PAPER	Application Number	10/701,992
	Filing Date	November 4, 2003
	First Named Inventor	Hetherton et al.
	Art Unit	3729
	Examiner Name	Thiem D. Phan
	Attorney Docket Number	MP1705-US4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,327,351	04-27-1982	Walker	
		US-4,330,703	05-18-1982	Horsma et al	
		US-4,352,083	09-28-1982	Middleman et al	
		US-4,371,860	02-01-1983	May et al.	
		US-4,388,607	06-14-1983	Toy et al	
		US-4,426,633	01-17-1984	Taylor	
		US-4,434,416	02-28-1984	Schonberger	
		US-4,445,026	04-24-1984	Walker	
		US-4,463,407	07-31-1984	Berger et al.	
		US-4,475,138	10-02-1984	Middleman et al	
		US-4,486,737	12-04-1984	Ott	
		US-4,486,738	12-04-1984	Sadlo et al.	
		US-4,514,620	04-30-1985	Cheng et al	
		US-4,529,960	07-16-1985	Uchida et al.	
		US-4,534,889	08-13-1985	van Konynenburg et al	
		US-4,545,926	10-08-1985	Fouts et al	
		US-4,560,498	12-24-1985	Horsma et al	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		DE-4000089-A1	07-12-1990	Mitsubishi Denki KK (Otsubo; US 5,017,243)		<input type="checkbox"/> counterpart
		DE-8716103-U1	03-03-1988	Degussa AG		<input checked="" type="checkbox"/> partial
		EP- 0509582-A2	10-21-1992	N.V. Philips Gloeilampenfabrieken (Schat)		<input type="checkbox"/> N/A
		EP-0223404-A1	05-27-1987	Raychem Corporation (Kleiner et al.)		<input type="checkbox"/> N/A

Examiner Signature	T.D.	Date Considered	9/25/07
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Sheet 3 of 10

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Application Number	10/701,992
Filing Date	November 4, 2003
First Named Inventor	Hetherton et al.
Art Unit	3729
Examiner Name	Thiem D. Phan

Attorney Docket Number MP1705-US4

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TM		US-4,591,700	05-27-1986	Sopory	
		US-4,593,181	06-03-1986	Jensen et al.	
		US-4,605,471	08-12-1986	Mitchell	
		US-4,660,017	04-21-1987	Momoki et al.	
		US-4,689,475	08-25-1987	Matthiesen	
		US-4,706,060	11-10-1987	May	
		US-4,714,910	12-22-1987	Schwingenschuh et al.	
		US-4,724,417	02-09-1988	Au et al	
		US-4,757,298	07-12-1988	Nishikawa et al.	
		US-4,757,581	07-19-1988	Yamada et al.	
		US-4,774,024	09-27-1988	Deep et al	
		US-4,777,718	10-18-1988	Henderson et al.	
		US-4,780,598	10-25-1988	Fahey et al	
		US-4,786,888	11-22-1988	Yoneda et al.	
		US-4,788,523	11-29-1988	Robbins	
		US-4,800,253	01-24-1989	Kleiner et al	
TM		US-4,801,784	01-31-1989	Jensen et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		EP-0308306-A1	03-22-1989	Compagnie Europeenne de Composants Electroniques LCC (Mallez et al.)		<input type="checkbox"/> Abstract
		EP-0398811-A2	11-22-1990	Fujikura Ltd. (Yamada et al.)		<input type="checkbox"/> N/A
		EP-0649562-B1	03-04-1998	Raychem Corporation (Graves et al.)		<input type="checkbox"/> N/A

Examiner
Signature

T. D.

Date
Considered

9/25/07

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 4 of 10

Complete if Known

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/701,992
		Filing Date	November 4, 2003
		First Named Inventor	Hetherton et al.
		Art Unit	3729
		Examiner Name	Thiem D. Phan
		Attorney Docket Number	MP1705-US4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TM		US-4,811,164	03-07-1989	Ling et al.	
		US-4,845,838	07-11-1989	Jacobs et al	
		US-4,861,966	08-29-1989	Matthiesen et al.	
		US-4,873,508	10-10-1989	Ankenman et al.	
		US-4,876,439	10-24-1989	Nagahori	
		US-4,882,466	11-21-1989	Friel	
		US-4,904,850	02-27-1990	Claypool et al.	
		US-4,907,340	03-13-1990	Fang et al.	
		US-4,924,074	05-08-1990	Fang et al.	
		US-4,924,204	05-08-1990	Uchida	
		US-4,924,205	05-08-1990	Caporali et al.	
		US-4,935,156	06-19-1990	van Konynenburg et al.	
		US-4,937,551	06-26-1990	Plasko	
		US-4,959,505	09-25-1990	Ott	
		US-4,977,309	12-11-1990	Uchida	
		US-4,992,771	02-12-1991	Caporali et al.	
TM		US-4,993,142	02-19-1991	Burke et al.	

FOREIGN PATENT DOCUMENTS

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		EP-0790625-A2	08-20-1997	Daito Communication Apparatus Co. Ltd. (Sugaya)		<input type="checkbox"/> N/A
		EP-0955643-A1*	11-10-1999	Matsushita Electric Industrial Co. Ltd.		<input type="checkbox"/> N/A
		GB-1415454-A	11-26-1975	Welwyn Electric Ltd.		<input type="checkbox"/> N/A
TM		JP-4-15001-A	05-22-1992	Murata Mfg. Co. Ltd. (Sunahara)		<input type="checkbox"/> Abstract

Examiner Signature	TM	Date Considered	9/25/07
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Sheet	5	of	10	First Named Inventor	Hetherton et al.
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				Examiner Name	Thiem D. Phan
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TH		US-5,015,824	05-14-1991	Monter et al.	
		US-5,017,243	05-21-1991	Otsubo	
		US-5,049,850	09-17-1991	Evans et al.	
		US-5,057,811	10-15-1991	Strott et al.	
		US-5,085,364	02-04-1992	Ishikawa et al.	
		US-5,089,801	02-18-1992	Chan et al.	
		US-5,142,263	08-25-1992	Childers et al.	
		US-5,166,658	11-24-1992	Fang et al.	
		US-5,194,316	03-16-1993	Horner et al	
		US-5,196,136	03-23-1993	Dishart et al	
		US-5,210,516	05-11-1993	Shikama et al	
		US-5,212,466	05-18-1993	Yamada et al.	
		US-5,216,404	06-01-1993	Nagai et al.	
		US-5,228,188	07-20-1993	Badihi et al	
		US-5,241,741	09-07-1993	Sugaya	
		US-5,247,277	09-21-1993	Fang et al.	
TM		US-5,258,738	11-02-1993	Schat	

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		JP-49-28594-A	08-03-1974	Matsushita Electric Industries Co. Ltd. (Ishiyama et al.)	<input checked="" type="checkbox"/> Translation
		JP-54-73260-A	06-12-1979	Tokyo Denki Kagaku Kogyo KK (Towatari et al.)	<input checked="" type="checkbox"/> Translation
		JP-56-150802-A	11-21-1981	TDK (Mamo et al.)	<input checked="" type="checkbox"/> Translation
		JP-61-124104-A	06-11-1986	Matsushita Electric Industries Co. Ltd (Aikawa)	<input checked="" type="checkbox"/> Translation

Examiner Signature	<i>T. D. Phan</i>	Date Considered	<i>9/25/07</i>
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Sheet 6 of 10

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TD		US-5,271,548	12-21-1993	Maiwald	
		US-5,280,263	01-18-1994	Sugaya	
		US-5,291,535	03-01-1994	Baker et al	
		US-5,303,115	04-12-1994	Nayar et al.	
		US-5,347,258	09-13-1994	Howard et al.	
		US-5,351,390	10-04-1994	Yamada et al.	
		US-5,378,407	01-03-1995	Chandler et al.	
		US-5,382,938	01-17-1995	Hansson et al.	
		US-5,451,919	09-19-1995	Chu et al.	
		US-5,451,921	09-19-1995	Crawford et al.	
		US-5,488,348	01-30-1996	Asida et al.	
		US-5,493,266	02-20-1996	Sasaki et al.	
		US-5,582,770	12-10-1996	Chu et al.	
		US-5,747,147	05-05-1998	Wartenberg et al.	
		US-5,763,929	06-09-1998	Iwata	
		US-5,777,541	07-07-1998	Vekeman	
TD		US-5,801,612	09-01-1998	Chandler et al.	

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		JP-63-216301-A	09-08-1988	Nippon Mektron (Akatsuka et al.)		<input checked="" type="checkbox"/> Translation
		JP-63-244702-A	10-12-1988	Nippon Mektron (Tanaka)		<input checked="" type="checkbox"/> Translation
		JP-5-29111-A	02-05-1993	Matsushita Electric Ind. Co. Ltd. (Ebine)		<input type="checkbox"/> Abstract
		JP-6-283301-A	10-07-1994	Mitsubishi Materials Corp. (Yoshinori)		<input type="checkbox"/> Abstract

Examiner Signature

TD

Date Considered

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Complete if Known	
Application Number	10/701,992
Filing Date	November 4, 2003
First Named Inventor	Hetherston et al.
Art Unit	3729
Examiner Name	Thiem D. Phan
Attorney Docket Number	MP1705-US4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PD		US-5,818,676	10-06-1998	Gronowicz, Jr.	
		US-5,831,510	11-03-1998	Zhang et al.	
		US-5,852,397	12-22-1998	Chan et al.	
		US-5,864,281	01-26-1999	Zhang et al	
		US-5,907,271	05-25-1999	Hirano	
		US-5,907,272	05-25-1999	McGuire	
		US-5,907,273	05-25-1999	Ross, Jr. et al.	
		US-6,020,808	02-01-2000	Hogge	
		US-6,104,587	08-15-2000	Banich et al.	
		US-6,130,597	10-10-2000	Toth et al.	
		US-6,172,591-B1	01-09-2001	Barrett	
		US-6,188,308	02-13-2001	Kojima et al.	
		US-6,297,722-B1	10-02-2001	Yeh	
		US-6,331,763-B1	12-18-2001	Thomas et al.	
		US-6,429,533-B1	08-06-2002	Li et al.	
		US-6,570,483-B1	05-27-2003	Chandler et al.	
TM		US-6,606,023	08-12-2003	Chiang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		WO 94/01876	01-20-1994	Raychem Corporation (Graves et al.)	N/A	<input type="checkbox"/> N/A
		WO 95/08176	03-23-1995	Raychem Corporation (Fang et al.)	N/A	<input type="checkbox"/> N/A
		WO 99/45551 **	09-10-1999	Bourns Multifuse Hong Kong Ltd. (Barrett)	N/A	<input type="checkbox"/> N/A
		WO84/01259	03-29-1984	Ericsson (Olofsson et al.).	N/A	<input type="checkbox"/> N/A

Examiner Signature	T.D.	Date Considered	9/25/07
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Adapted from PTO/SB/08a 08/21/06

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/701,992
		Filing Date	November 4, 2003
		First Named Inventor	Hetherton et al.
		Art Unit	3729
		Examiner Name	Thiem D. Phan
Sheet	8	of	10
		Attorney Docket Number	
		MP1705-US4	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ⁶
		WO95/31816	11-23-1995	Raychem Corporation (Zhang et al.)		<input type="checkbox"/> N/A
		WO95/34084	12-14-1995	Raychem Corporation (Zhang et al.)		<input type="checkbox"/> N/A
		WO98/12715	03-26-1998	Matsushita Electric Industries Co. Ltd. (Kojima et al.)		<input type="checkbox"/> N/A
		WO98/29879*	07-09-1998	Matsushita Electric Industries Co. Ltd.		<input type="checkbox"/> N/A

Examiner Signature	T. J.	Date Considered	9/25/07
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possible. "Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) and application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademarks Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (07-08) (modified)

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		Application Number	10/701,992
		Filing Date	November 4, 2003
		First Named Inventor	Hetherton et al.
		Art Unit	3729
		Examiner Name	Thiem D. Phan
Sheet 9	of 10	Attorney Docket Number	MP1705-US4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	File No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"PolySwitch PTC Devices", Standard Product List, Raychem Corporation, May 1992.	<input type="checkbox"/>
		"PolySwitch SMD Installation Guidelines" trade brochure, Raychem Corporation, Nov. 1992.	<input type="checkbox"/>
		"PolySwitch SMD Surface Mount Devices PTC Overcurrent Protection" trade brochure, Raychem Corporation, Nov. 1992.	<input type="checkbox"/>
		"Protection of Batteries with PolySwitch Devices", Raychem Corporation, Jan. 1987.	<input type="checkbox"/>
		Coombs, <u>Printed Circuit Handbook</u> , 1996, p. 24.1 - 24.17, 40.1 - 40.4	<input type="checkbox"/>
		Harper, <u>Electronic Packaging and Interconnection Handbook</u> (1991), p. 1.37 - 1.43, 8.3 - 8.5, 8.53 - 8.56, 9.1 - 9.16, 9.41 - 9.49.	<input type="checkbox"/>
		Patent Abstracts of Japan, vol. 013, no. 198 (E-756), 11 May 1989 & JP 01-020601A (JCG Corp.), 24 January 1989, abstract.	<input type="checkbox"/>
		Search Report for International Application No. PCT-US00-25118, June 13, 2001.	<input type="checkbox"/>
		Search Report for International Application No. PCT-US02-39392, May 13, 2003.	<input type="checkbox"/>
		Search Report for International Application No. PCT-US93-06480, October 7, 1993.	<input type="checkbox"/>

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/701,992
		Filing Date	November 4, 2003
		First Named Inventor	Hetherton et al.
		Art Unit	3729
		Examiner Name	Thiem D. Phan
Sheet 10	of 10	Attorney Docket Number	MP1705-US4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Search Report for International Application No. PCT-US94-10137, November 23, 1994.	<input type="checkbox"/>
		Search Report for International Application No. PCT-US95-05567, June 26, 1995.	<input type="checkbox"/>
		Search Report for International Application No. PCT-US95-07420, September 4, 1995.	<input type="checkbox"/>
		Standler, <u>Protection of Electronic Circuits from Overvoltages</u> , 1989, p. 133	<input type="checkbox"/>
		Sunahara, JP 40415001A (5-1992), abstract.	<input type="checkbox"/>
		U.S. Patent Application No. 07-893626 (Chandler et al.), filed June 5, 1992.	<input type="checkbox"/>
<i>TP</i>		U.S. Patent Application No. 08-816,471 (Chandler et al., filed March 13, 1997), now U.S. Patent No. 6,570,483.	<input type="checkbox"/>
<i>TP</i>		U.S. Patent Application No. 09-060,278 (Chiang et al., filed April 14, 1998), now U.S. Patent No. 6,606,023.	<input type="checkbox"/>
<i>TP</i>		U.S. Patent Application No. 09-181,028 (Graves et al., filed October 27, 1998), now U.S. Patent No. 6,651,315.	<input type="checkbox"/>
<i>TP</i>		U.S. Patent Application No. 09-364,504 (Isozaki et al., filed July 30, 1999), now U.S. Patent No. 6,358,438.	<input type="checkbox"/>

Examiner Signature	<i>TP</i>	Date Considered	9/25/07
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